

In-Field Technologies for Joints, Repairs, and Rehabilitation

Group 4

Chairs

J. Didas (Colonial Pipeline)

P. Nidd (PGNGroup)

Approach involved open discussion & selection of possible projects followed by initial vote (Show Of Hands)

Second vote & Discussion of top 4 items

Item Description	Urgency/ Priority/ No Of Votes (1)	Urgency/ Priority/ No Of Votes (2)	Defined Research Area	Comments / Benefits
<p>Data base of coating technical data sheets, coating formulation history, testing results (based on accepted standard) & MSDS sheets. Technical data sheets – standard formats.</p> <p>Updating technical data sheets for reformulated coatings for all customers. Automatic updates – time limit for coating validity.</p> <p>Materials storage standards. Expiration dates for coating materials.</p> <p>Minimum third party evaluation of new or reformulated coatings.</p>				
Abrasive blast material specifications & selection guide	9	10	Knowledge/ Tools	Knowledge sharing/ Development of up to date standards
Applicator & Inspector certification / Training				
Outcome – develop standards for applicators & inspectors.	9	9	Standards	Provide standardized application & QC
Repair coating matrix – based on pipe diameter & temperature & soil stress.				
Coating Selection & Risk Assessment Profile & Results of Improper Selection	8	8	Knowledge/ Standards	Provide coating selection tool for operators
Perform performance testing & environmental assessment of abrasive blasting materials.				
		4	R&D	Separated out/ no initial vote
Pipeline Coatings Industry Users Group			NACE	Agreed to let NACE TEG to initiate

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NDE & guided wave through coating corrosion evaluation- How accurate - assess existing techniques – develop new techniques.	6	4	R&D	Provide operator knowledge regarding defect detection techniques.
Non intrusive disbondment testing – adhesion testing, wet film & dry film, hardness & % cure new & existing coatings.	4		R&D	No damage to coating during testing.
Repair Sleeves – Composite & Steel - Field Applied Repairs.				
Required to coat. Coating of transition bridge.				
Compatibility issues. Setup and curing issues.	3		R&D	Provide operator knowledge re sleeve repairs
Research more effective coating removal methods. Technology transfer from DOE or NSF.	4		R&D	Cost savings for operators/ efficiencies
Wet surface coatings operated at high temperatures – R&D for new materials.	1		R&D	Problem solution
Repair coatings used in high or low pH environments. Mine run off – flue ash.	2		R&D	Problem solution

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Alternative methods of concrete removal for marsh areas	1		R & D	Problem solution
Backfill – pipe support after backfill – piers – breakers – sand bags – research technologies.	1		R & D	Problem solution
Time dependent coating compatibility testing & minimum level requirements.	1		R & D	Increased information regarding coating durability.